

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/009099

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ F04C18/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ F04C18/32

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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|---------------------------|-----------|----------------------------|-----------|
| Jitsuyo Shinan Koho | 1922-1996 | Jitsuyo Shinan Toroku Koho | 1996-2005 |
| Kokai Jitsuyo Shinan Koho | 1971-2005 | Toroku Jitsuyo Shinan Koho | 1994-2005 |

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| X | JP 11-62862 A (Matsushita Electric Industrial Co., Ltd.), 05 March, 1999 (05.03.99), Par. Nos. [0063] to [0067]; Fig. 3 (Family: none) | 1,3,10 6-9 |
| X | Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 16899/1988 (Laid-open No. 124091/1989) (Toshiba Corp.), 23 August, 1989 (23.08.89), Description; page 7, line 7 to page 13 to line 15; Figs. 1 to 3 (Family: none) | 1,3,10 6-9 |
| | | |

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
08 August, 2005 (08.08.05)Date of mailing of the international search report
23 August, 2005 (23.08.05)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| X Y | Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 83422/1975 (Laid-open No. 163111/1976) (Hitachi, Ltd.), 25 December, 1976 (25.12.76), Description; page 1, line 18 to page 5, line 10; Figs. 1 to 3 (Family: none) | 1, 3-4, 10 6-9 |
| X Y | Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 31020/1972 (Laid-open No. 107105/1973) (Mitsubishi Electric Corp.), 12 December, 1973 (12.12.73), Description; page 1, line 13 to page 7, line 8; Figs. 1 to 3 (Family: none) | 1-2, 10 6-9 |
| X Y | JP 2002-543333 A (HWANG, Dong, il), 17 December, 2002 (17.12.02), Par. Nos. [0052] to [0072]; Figs. 6 to 7 & EP 1177383 A1 & US 6676392 B1 | 1, 3, 5, 10 6-9 |
| Y | JP 6-288358 A (TECUMSEH PRODUCTS CO.), 11 October, 1994 (11.10.94), Par. Nos. [0016] to [0032]; Figs. 1 to 9 & EP 510402 A2 & CA 2063888 C | 6-9 |
| Y | Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 188059/1983 (Laid-open No. 97394/1985) (Mitsubishi Heavy Industries, Ltd.), 03 July, 1985 (03.07.85), Description; page 1, line 16 to page 5, line 16; Figs. 1 to 4 (Family: none) | 6-9 |
| Y | Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 182995/1983 (Laid-open No. 90584/1985) (Mitsubishi Heavy Industries, Ltd.), 21 June, 1985 (21.06.85), Description; page 6, line 6 to page 7, line 4; Figs. 3 to 4 (Family: none) | 6-9 |
| Y | JP 2000-73974 A (Daikin Industries, Ltd.), 07 March, 2000 (07.03.00), Par. Nos. [0043] to [0044]; Fig. 3 (Family: none) | 9 |